

Title (en)

Determination of a common fundamental frequency of harmonic signals

Title (de)

Feststellung einer gemeinsamen Fundamentalfrequenz harmonischer Signale

Title (fr)

Détermination d'une fréquence fondamentale commune de signaux harmoniques

Publication

EP 1686561 A1 20060802 (EN)

Application

EP 05004066 A 20050224

Priority

- EP 05001817 A 20050128
- EP 05004066 A 20050224

Abstract (en)

In order to determine the time course of the fundamental of harmonic signals, the following steps are carried out: The input signal is first split into different frequency channels by bandpass filters, The distances of zero crossings of different orders are calculated A histogram of all these distance values for each instant in time is calculated, wherein the distance values build a peak at the distance corresponding to the fundamental frequency. This method can be used e.g. to separate acoustic sound sources in monaural recordings based on their underlying fundamental frequency. The harmonic signals, however, can also originate from e.g. pressure sensors.

IPC 8 full level

G10L 25/90 (2013.01)

CPC (source: EP US)

G10L 25/90 (2013.01 - EP US)

Citation (search report)

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EP1973101A1; US8050910B2

Designated contracting state (EPC)

DE FR GB

DOCDB simple family (publication)

EP 1686561 A1 20060802; EP 1686561 B1 20120104; JP 2006209123 A 20060810; JP 4705480 B2 20110622; US 2006195500 A1 20060831; US 8108164 B2 20120131

DOCDB simple family (application)

EP 05004066 A 20050224; JP 2006015950 A 20060125; US 34091806 A 20060126